

PATENT  
Serial No.: 09/938,387  
Docket No.: ST00015C1 (108-US-U2)

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Please amend the claims as follows:

1. (Currently amended) An apparatus for compressing a Global Positioning System (GPS) signal, comprising:

a first mixer for removing a carrier component of the GPS signal;

a second mixer for receiving the carrier-removed GPS signal and a separately received frequency reference signal and outputting a resultant signal;

~~a comb filter, coupled to the second mixer, for filtering the carrier-removed GPS resultant signal that has a frequency reference signal received separate from the carrier-removed GPS signal and obtain~~ obtaining a first output comprising filter lines; and

a frequency shifter for shifting the filter lines in the first output to produce a compressed GPS signal.

2. (Original) The apparatus of claim 1, further comprising a second frequency shifter for shifting the compressed GPS signal to produce a second compressed GPS signal.

3. (Previously Presented) The apparatus of claim 2, wherein the comb filter filters the carrier-removed GPS signal that has been combined with the reference frequency signal received from a remote location via a wireless communication link, and using the reference frequency signal from the remote location to shift the carrier-removed GPS signal received at the comb filter to an expected location of the filter lines of the first output.

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4. (Original) The apparatus of claim 3, wherein the frequency shifting of the filter lines comprises mixing the filter lines with at least one output of a frequency generator.